

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 April 2004 (29.04.2004)

PCT

(10) International Publication Number  
**WO 2004/036269 A3**

(51) International Patent Classification<sup>7</sup>: **G02B 27/40**,  
27/64, 7/04, G01C 21/02, 21/24, H01J 3/14, 40/14, 5/16

(21) International Application Number:  
PCT/US2003/033288

(22) International Filing Date: 17 October 2003 (17.10.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/419,546 18 October 2002 (18.10.2002) US

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:  
13 January 2005

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: METHOD AND APPARATUS OF USING OPTICAL DISTORTION IN A DIRECTED COUNTERMEASURE SYSTEM TO PROVIDE A VARIABLE FIELD OF VIEW

(57) Abstract: A single, hard-mounted set of optics is utilized to replace a two field-of-view system for directed countermeasures. It includes within one continuous but distorted field of view the capability to detect, acquire and characterize targets at the edge of the field while precisely tracking with high target fidelity at the field center. With multiple targets, both tracking of a primary target and acquisition of a secondary target can occur simultaneously, greatly improving countermeasure effectiveness.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/33288

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G02B 27/40, 27/64, 7/04; G01C 21/02, 21/24; H01J 3/14, 40/14, 5/16

US CL : 250/203.1, 203.6, 206.1, 206.2, 216;356/139.04, 139.05

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 250/203.1, 203.6, 206.1, 206.2, 216;356/139.04, 139.05

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,123,287 A (BOZEMAN et al) 26 September 2000 (26.09.2000), column 1, lines 45-59; column 2, lines 6-34; column 7, lines 42-67; column 8, lines 1-6.	1-4, 10, 12-15, 18, 20
Y		5-9, 11, 16-17, 19
Y	US 3,987,297 (BRIENZA et al) 19 October 1976 (19.10.1976), figure 1, column 4, lines 6-22.	5-9, 11, 16-17, 19
A	US 6,410,897 B1 (O'NEILL et al) 25 June 2002 (25.06.2002).	

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

19 August 2004 (19.08.2004)

Date of mailing of the international search report

26 NOV 2004

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